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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,528	01/03/2006	Walter Stieglbauer	STIEGLBAUER W. ET AL-4 PC	1506
25889	7590	06/23/2009	EXAMINER	
COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576			JENNISON, BRIAN W	
			ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			06/23/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/563,528

**Applicant(s)**

STIEGLBAUER ET AL.

**Examiner**

BRIAN JENNISON

**Art Unit**

3742

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 27 April 2009.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 and 19-21 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-10 and 19-21 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-8508)  
Paper No(s)/Mail Date \_\_\_\_\_  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

***Response to Arguments***

1. Applicant's arguments, see page 9, filed 4/27/2009, with respect to claim 5 have been fully considered and are persuasive. The objection of claim 5 has been withdrawn.
2. Applicant's arguments filed 4/27/2009 have been fully considered but they are not persuasive. See comments below.

In regards to applicant's assertion in claims 1, 19 and 21 on pages 10-11 that Erras does not disclose a guiding groove. The guiding groove is clearly shown in Fig 3 and is referenced as a recess 7 for guiding the strip section. The remaining arguments regarding claims 19-21 are addressed below.

***Specification***

3. Applicant is reminded of the proper content of an Abstract of the Disclosure.

In chemical patent abstracts for compounds or compositions, the general nature of the compound or composition should be given as well as its use, *e.g.*, "The compounds are of the class of alkyl benzene sulfonyl ureas, useful as oral anti-diabetics." Exemplification of a species could be illustrative of members of the class. For processes, the type reaction, reagents and process conditions should be stated, generally illustrated by a single example unless variations are necessary.

Complete revision of the content of the abstract is required on a separate sheet.

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that

the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. **It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.**

### ***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. **Claims 1, 3-8 stand rejected under 35 U.S.C. 102(b) as being anticipated by Erras et al (DE 44 16 504 as cited by applicant).**

Erras et al teaches:

**Regarding Claim 1:** Spot welding tongs for robotic applications

for the resistance welding of workpieces and, in particular, sheet metals, ("**robot-led welding tongs**" used to perform resistance welding See Paragraph 7, Line 13 of machine translation provided) of the type including tong arms which are each pivotally mounted on a base body (**Tongs are defined as any of various implements consisting of two arms hinged, pivoted, or otherwise fastened together, for**

**seizing, or holding)** and adjustable by an actuating means **(Since the tongs are robotic they must include an actuating means for moving the tongs to perform the welding)** and to which electrode holders for the electrodes **(See Fig. 2 which shows the electrode holder 1 and the electrode cap 4)** are fastened, and further including winding means comprising a wind-off roller and a wind-up roller for winding off and on a strip for the protections of at least one electrode, **(See Paragraph 12 which describes the coil 9a for unwinding the strip 10 and the coil 9b for winding up the strip 10 for protecting the electrode.)** wherein the wind-off roller and the wind-up roller (ii) of the winding means are arranged on the base body or on the tong arm, **(the coils 9a and 9b are capable of being arranged on the tong arms 2)** and that at least one guiding groove is provided on the tong arm and/or on the electrode holder for the guidance of the strip along the tong arm. **(See Fig 3 which shows the recess 7 for guiding the strip section 5 along the tong arm 2. See also Paragraph 11, Line 1)**

**Regarding Claim 3:** Spot welding tongs according claim 1, wherein the wind-off roller and/or the wind-up roller is coupled with a driving means and, in particular, an electronically activatable motor. **(The coils 9a and 9b are operated by a driving mechanism for feeding the strip 10. See Paragraph 7, Lines 10-11)**

**Regarding Claim 4:** Spot welding tongs according to claim 1, wherein the tong arm is formed by a base section, and that side pieces are arranged on either side of the base section to project beyond the base section, and thus formed depression is designed as

a guiding groove for the strip. **(Fig 3 shows a recess 7 in the base of the arm which is formed by two sides extending beyond the base section)**

**Regarding Claim 5:** Spot welding tongs according to claim 4, wherein at least one cover plate is arranged on the end sides of the side pieces to cover the guiding groove formed between the side pieces. **(The receptacles 8, as seen in Fig 4, cover the recess 7 and are arranged on the end of the sides which extend beyond the base to form the recess 7)**

**Regarding Claim 6:** Spot welding tongs according to claim 1, wherein the tong arm is formed by a base section with the guiding groove being incorporated in the base section. **(Fig 3 shows a recess 7 in the base of the arm which is formed by two sides extending beyond the base section)**

**Regarding Claim 7:** Spot welding tongs according to claim 1, wherein the guiding groove is formed by additional guiding elements which are provided, for instance slipped or screwed, on the tong arm and/or electrode holder.  
**(The receptacles 8, as seen in Fig 4, form a u-shaped groove which cover the recess 7 and are part of the groove or recess for guiding the strip over the electrode.)**

**Regarding Claim 8:** Spot welding tongs according to claim 1, wherein the tong arm is 'comprised of several individual components which are connected with one another in a manner that a hollow space is formed in the center of the tong arm for the guidance of the strip. **(The receptacles 8, as seen in Fig 4, are provided for forming a hollow section on the tong arms for guiding the strip. See Paragraph 11, Lines 5-6)**

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. **Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Erras et al in view of applicant admitted prior art.**

Erras et al fails to teach (re claim 2) Spot welding tongs according to claim 1, wherein means for guiding and deflecting the strip, in particular deflection pulleys and slide surface, are provided on the tong arm and/or electrode holder.

The applicant admits a device is known wherein a roller or pulley for deflecting the strip is arranged on the electrode shaft. **(See Paragraph 3, Lines 11-14 of the specification)**

In view of the applicant's admitted prior art it would have been obvious to one of ordinary skill in the art at the time of the invention to include, the roller or pulley, arranged on the electrode shaft which is part of the tong arm, for deflecting the strip over the electrode since, the applicant admits this for deflecting the strip from the wind off coil and placing the strip in a transverse position to protect the electrode.

**9. Claims 9-10, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Erras et al in view of Nishimura (JP 05192774 as cited by applicant).**

The teachings of Erras et al have been discussed above.

Erras also teaches: (re claims 19 and 21) plurality of tong arms which would be pivotally mounted on a base, the electrode holders 1, two electrodes, winding mechanism. **See Figs 1 and 3.** (re claims 20 and 21) The guide groove 7 is on the electrode holders. **See Fig 3.)**

Erras et al fails to teach (re claim 9) Spot welding tongs according to claim 1, wherein a braking device is provided to fix and stretch the strip. (re claim 10) Spot welding tongs according to claim 9, wherein the braking device is connected with a control unit. (re claims 19 and 21) Actuating means and the winding rollers on the base body.



Nishimura teaches (re claim 9) The 1st rolling-up means 31 is attached to the upper electrode 5 side of the welding gun 1. The 1st rolling-up means 31 comprises the stepping motor 32, the torque sensor 33, the connecting shaft 34, and the driven shaft 35. The torque sensor 33 is connected with the output shaft of the stepping motor 32.

**(See Paragraph 25, Lines 1-3)** The torque sensor allows the motor to function as a brake capable of fixing and stretching the strip, if the wind up motor is running when the wind off motor is stopped, in a spot resistance welding device. (re claim 10) Drive controlling of the stepping motor 32 is carried out by the control means 81. **(See Paragraph 25, Line 7)** The control unit stops and starts each motor and reel. (re claims 19 and 21) Nishimura teaches the actuating means shown in drawing 2 for adjusting the tong arms.

In view of Nishimura's teachings it would have been obvious to one of ordinary skill in the art at the time of the invention to include, the brake and controlling unit since, Nishimura teaches a device including, a torque sensor, stepping motor, connecting shaft and driven shaft, functioning as a brake since, Nishimura teaches these devices for detecting and fixing abnormalities of the band which protects the welding electrode and the actuating means or pneumatic cylinder for moving the tong arms to perform the welding process.

Erras discloses the claimed invention except for the winding rollers on the body. It would have been obvious to one of ordinary skill in the art at the time the invention made to have the winding rollers on the body, since it has been held that rearranging parts of an invention involves only routine skill in the art. (In re Japiske, 86 USPQ 70.)

### ***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN JENNISON whose telephone number is (571)270-5930. The examiner can normally be reached on M-Th 7:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRIAN JENNISON/  
Examiner, Art Unit 3742

6/17/2009

/TU B HOANG/

Supervisory Patent Examiner, Art Unit 3742